

# Aus A. Najim (Mr.)

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## PERSONAL INFORMATION

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- **Nationality:** Iraqi
- **Date of Birth:** December 17<sup>th</sup> 1977
- **Place of Birth:** Baghdad-IRAQ
- **Languages:** Arabic(native) and English
- **Marital Status:** Married

## SUMMARY OF QUALIFICATIONS

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**Al-Mustansiriyah University** Baghdad, IRAQ

*Master of Science in Theoretical Nuclear Physics (M.Sc.)* 2003

Department of Physics, College of Education in Autumn 2003 with Grade Point Average (GPA) of 80.944% and Rank 1<sup>st</sup> of 13

**Al-Mustansiriyah University** Baghdad, IRAQ

*Bachelor of Science (B.Sc.)* 2000

Department of Physics, College of Education in Summer 2000 with Grade Point Average (GPA) of 80.404% and Rank 2<sup>nd</sup> of 66

## WORK EXPERIENCES

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**University of Technology** Baghdad, IRAQ

*Assistant Lecturer, Researcher at* 2014-present

*Nanotechnology & Advanced Materials Research Center*

**AL-ULAA FZCO** Dubai, UAE

*IT Manager at* 2006-2007

*General Company of Electronics & Electrical Equipment in*

*Dubai Airport Free Zone*

## PUBLICATIONS

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- "Synthesis and characterizations of  $(\delta\text{-Bi}_2\text{O}_3)_{0.93}(\text{TiO}_2)_{0.07}$  thin films grown by PLD technique for optoelectronics", **Material Science in Semiconductor**

**Processing**, 71, November 378-381, Elsevier, North-Holland (2017).  
<https://doi.org/10.1016/j.mssp.2017.08.035>

- “Structural, morphology and optical properties of CZO thin films deposited by sol-gel spin coating for optoelectronic applications”, **Journal of Materials Science: Materials in Electronics**, 1-6, Springer, USA (2017).  
<https://rd.springer.com/article/10.1007/s10854-017-7384-6>
- “Synthesis of Efficient and Effective  $\gamma$ -MnO<sub>2</sub>/ $\alpha$ -Bi<sub>2</sub>O<sub>3</sub>/ $\alpha$ -Si Solar Cell by Vacuum Thermal Evaporation Technique”, **Plasmonics**, (585) 1-5, Springer, USA (2017).  
[DOI:10.1007/s11468-017-0585-2](https://doi.org/10.1007/s11468-017-0585-2).
- Novel Covellite CuS Single-Crystal Thin Films for Optoelectronics Applications”, **Plasmonics**, (505) 1-4, Springer, USA (2017). [DOI: 10.1007/s11468-017-0505-5](https://doi.org/10.1007/s11468-017-0505-5).
- “Single-material multilayer ZnS as anti-reflective coating for solar cell application”, **Optics Communications** 388, April 84-89, Elsevier, North-Holland (2017).  
<http://dx.doi.org/10.1016/j.optcom.2016.12.035>
- “Room Temperature NO<sub>2</sub> Gas Sensor Based on SnO<sub>2</sub>-WO<sub>3</sub> Thin Films”, **Plasmonics**, (358) 1-5, Springer, USA (2016). [DOI: 10.1007/s11468-016-0358-3](https://doi.org/10.1007/s11468-016-0358-3).
- “Improving efficiency of TiO<sub>2</sub>:Ag /Si Solar Cell prepared by Pulsed Laser Deposition”, **Plasmonics**, (235) 1-11, Springer, USA (2016). [DOI: 10.1007/s11468-016-0235-0](https://doi.org/10.1007/s11468-016-0235-0)
- “TiO<sub>2</sub>/Ni composite as antireflection coating for solar cell application”, **Optics Communications** 370, July 263-266, Elsevier, North-Holland (2016).  
<http://dx.doi.org/10.1016/j.optcom.2016.03.034>
- “Profile optimization of the discharge electrodes in TEA CO<sub>2</sub> LASER system”, **Diyala Journal for Pure Science** Vol.12, No.3, 33-50 , University of Diyala, Iraq (2016).  
<http://iasj.net/iasj?func=article&aId=112702>
- “Antimicrobials Nano-Fiber PVA Pure and PVA: TiO<sub>2</sub> for Filtration Applications”, **Eng. & Tech. Journal**, Vol.33, Part (B), No.4, University of Technology, Iraq (2015). <http://www.iasj.net/iasj?func=article&aId=105407>
- “Elastic Magnetic Electron Scattering from <sup>17</sup>O, <sup>25</sup>Mg and <sup>27</sup>Al”, **Nuclear Physics A** 724 , 333-344, Elsevier, North-Holland (2003). [http://dx.doi.org/10.1016/S0375-9474\(03\)01009-1](http://dx.doi.org/10.1016/S0375-9474(03)01009-1)
- “Role of Core-Polarization Effects in Elastic Magnetic Electron Scattering in sd-Shell Nuclei”, **M.Sc. Thesis**, Al-Mustansiriyah University, Iraq (2003).

## PERSONAL PROFILE/PERSONAL ATTRIBUTES

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- I'm a Physicist and interested in working with new technologies and have a drive to learn about the latest theories in the field of Physics and Nanotechnology and expressing new ideas in physics, Skilled in using Scanning Electron Microscope (SEM)(Tescan VEGA 3 SB) and scientific packages (Origin Pro Lab, ImageJ, office,

*Virtual Nano Lab, Matlab and XRD Analysis software) and familiar with operating systems (Windows, Linux, Unix, MSDOS and Mac OS).*

- *I'm concerned to service my time for the work that I am sponsored to do.*
- *Eager to develop my capabilities in the field of specialization for better performance.*
- *Intend to keep my relationship with the people that I'll be working with within the work environment as professional as possible.*
- *Transparency and objectiveness is my style of personality.*

*References will be supplied upon request.*